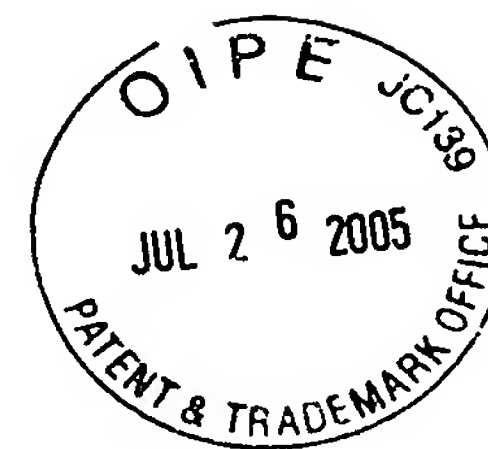
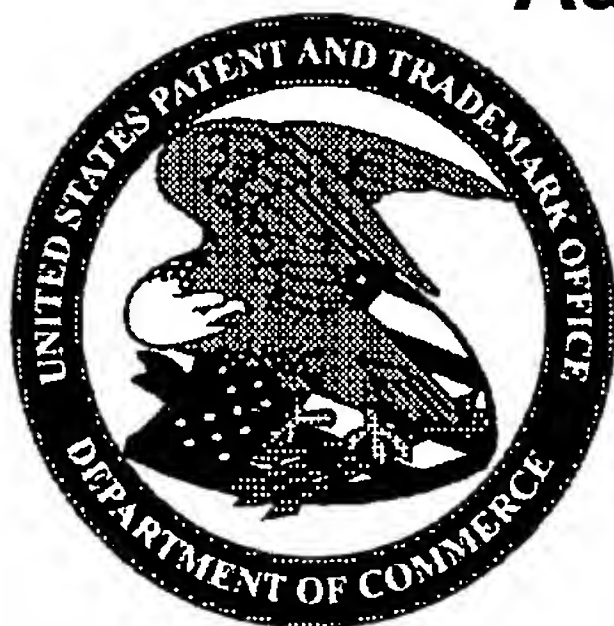


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21-07-'05 17:38 從 WINSTON HSU, NO. 41526 8064986673 T-585 P01/41 U-540



**North America  
Intellectual Property Corporation**

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

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Customer No.: 27765

**Fax To: CALLAHAN, TIMOTHY P**

**Tel.: (571) 272-1740**

**Art Unit: 2816**

**Fax: (571) 273-8300**

**From : Winston Hsu, Registration No. 41,526**

**Serial No.: 10/710,175**

**Attorney Docket No.: REAP0025USA**

**Subject: Information Disclosure Statement (IDS)**

**Total Pages: 41 pages (including cover page)**

**Winston Hsu 2005/07/21**

**REAP0025USA0\_DI\_1**

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21-07-'05 17:49 從- WINSTON HSU,NO.41526 8064986673

T-587 P07/41 U-540

than three months prior to the filing of the information disclosure statement.

According to the requirement set forth in 37 CFR §1.98(a)(2), the applicant is submitting a copy of the cited Taiwanese patent TW 556072 (published October 1, 2003). In accordance with MPEP 609 III A(3), an English-language equivalent application may be submitted to fulfill the requirement for a concise explanation of relevance. Accordingly, the English-language equivalent US patent 6,360,774 of the Taiwanese patent TW 556072 is hereby presented to fulfill the 37 CFR §1.98(a)(3) requirement.

It is respectfully requested that the examiner can consider the document(s) listed on the accompanying form PTO/SB/08 and that it be made of record in the application. The applicants sincerely hope that the examiner initials the cited reference(s) on the form and that a copy of the initialed form be sent to the applicants with the next communication from the examiner.

Respectfully submitted,

*Winston Hsu*

Date: July 21, 2005

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562

Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

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21-07-'05 18:04 從 WINSTON HSU, NO. 41526 8064986673 T-588 P11/41 U-540

(4)

7. 透過 MOS 電晶體，在內外部節點和接點之間，將上述第 2 輸入信號之反相信號當作開關輸入，而以定電流來驅動之；而又在上述內部節點和接點之間，被串列連接之開關元件和電容，以複數個互相地並列連接，而在上述開關元件之控制端子上所供給之週期控制信號上，來決定附加在上述內部節點之電容值。
12. 如申請專利範圍第 1、2 或 3 項所述之時間控制電路，其中上述相位調整用邏輯器，包括：
- 邏輯器，將第 1、第 2 之輸入信號輸入，而輸出上述第 1、第 2 之輸入信號之既定的邏輯運算結果；
- 第 1 開關元件，被連接至第 1 電極和內部節點之間，而輸入上述邏輯運算之輸出信號至控制端子上；以及
- 緩衝器電路，輸入端被連接至上述內部節點，而在上述內部節點之電位和臨界值之大小關係反相的情況下，使其輸出邏輯值反相；
- 而在上述內部節點和第 2 電極之間，由以第 1 定電流源，和上述第 1 輸入信號來控制開關動作之第 2 開關元件，和以來自上述控制電路之控制信號來控制開關動作之第 3 開關元件而形成的串列電路，複數個地並列連接；
- 在上述內部節點和第 2 電極之間，由上述第 2 定電流源，和上述第 2 輸入信號來控制開關動作之第 4 開關元件，和以來自上述控制電路之控制信號來控制開關動作之第 5 開關元件而形成的串列電路，複數個地並列連接；
- 而又在上述內部節點和上述第 2 電極之間，由第 6 開關元件和電容而形成的串列電路，複數個地互相地並列連接，而在被連接至上述第 6 開關元件之控制端子上之週期控制信號上，來決定附加在上述內部節點之電容值。
13. 如申請專利範圍第 12 項所述之時間控制電路，其中上述第 1 開關元件，由第 1 場電壓之電晶體所構成；而上述第 2 至第 6 開關元件，由第 2 場電壓之電晶體所構成。
14. 如申請專利範圍第 12 項所述之時間控制電路，由上述第 2 開關元件、上述第 3 開關元件、上述第 4 開關元件、以及上述第 5 開關元件中之任何之至少之既定個數(N 個)而構成；
- 藉由供給至上述第 3 開關元件群之控制信號，來調整 K(其中，K 為 0-N)個之上述第 3 開關元件；
- 藉由供給至上述第 5 開關元件群之控制信號，來調整 N-K 個之上述第 5 開關元件；
- 而上述第 1 輸入信號和上述第 2 輸入信號之時間差 T，以上述時間差之 N 分之 1 為單位，輸出對應至上述 K 當基準之內分數之相位的信號，並藉由可以改變 K 之值，來改變內分比。
15. 如申請專利範圍第 1、2 或 3 項所述之時間控制電路，其中上述相位調整用邏輯器，包括：
- 邏輯器(OR)電路，將第 1、第 2 之輸入信號當作輸入；
- P 場電壓 MOS 電晶體，被連接至電極和內部節點之間，而輸入上述邏輯器電路之輸出信號至其端上；以及
- 緩衝器電路，輸入端被連接至上述內部節點，而在上述內部節點之電位和臨界值之大小關係反相的情況下，使其輸出邏輯值反相；
- 在上述內部節點和接點之間，將上述第 1 輸入信號當作開關輸入，而以

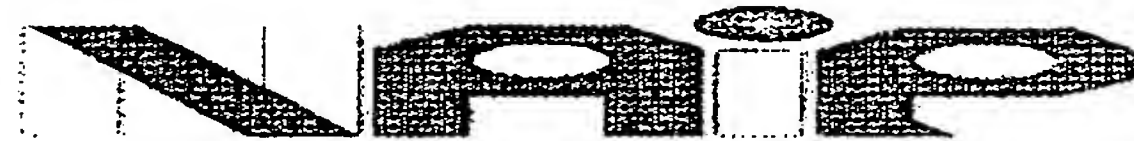
- 3624 -

記憶傳送報表

時間 : 21-07-'05 18:16  
電話號碼1 : 8064986673  
名稱 : WINSTON HSU, NO. 41526

檔案號碼 : 540  
日期 : 21.07 17:37  
至 : 00215712738300  
原稿頁數 : 41  
啓始時間 : 21.07 17:38  
結束時間 : 21.07 18:16 (回復時間 : 21.07 19:16 )  
傳送頁數 : 12  
狀態 : NG DO

傳送原稿



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Intellectual Property Corporation**

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Customer No.: 27765

Fax To: CALLAHAN, TIMOTHY P  
Art Unit: 2816

Tel.: (571) 272-1740  
Fax: (571) 273-8300

From : Winston Hsu, Registration No. 41,526

Serial No.: 10/710,175

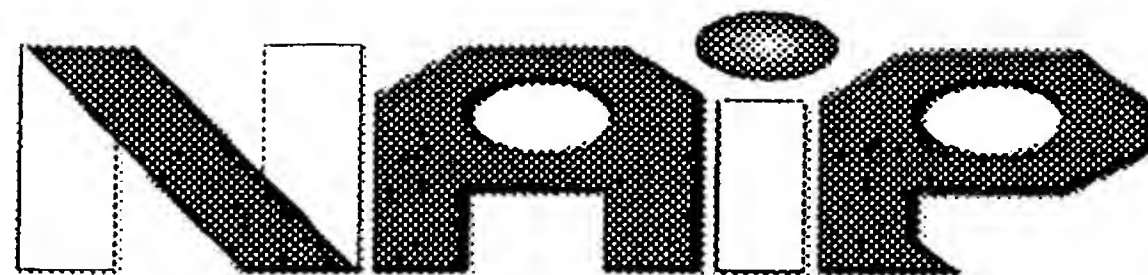
Attorney Docket No.: REAP0025USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 41 pages (including cover page)

Winston Hsu 2005/07/21

REAP0025USA0\_ID1\_1



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**Fax: (571) 273-8300**

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**Serial No.: 10/710,175**

**Attorney Docket No.: REAP0025USA**

**Subject: Information Disclosure Statement (IDS)**

**Total Pages: 41 pages (including cover page)**

**Winston Hsu 2005/07/21**

**REAP0025USA0\_D1\_1**



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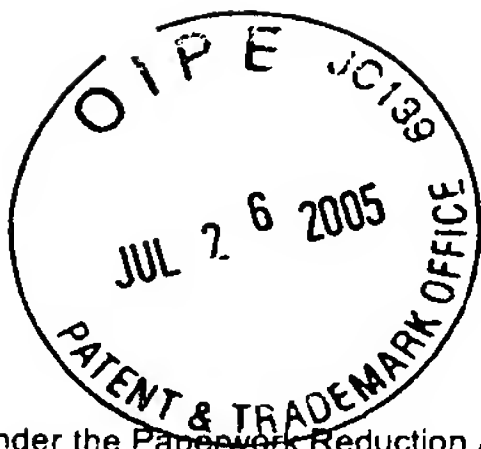
Application No: 10/710,175

(1) Transmittal Form	1 PAGE
(2) Fee Transmittal	1 PAGE
(3) Information Disclosure Statement	37 PAGES

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/710,175	
	Filing Date	06/23/2004	
	First Named Inventor	Han-Chang Kang	
	Art Unit	2816	
	Examiner Name	CALLAHAN, TIMOTHY P	
Total Number of Pages in This Submission	39	Attorney Docket Number	REAP0025USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<b>Remarks</b>	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	North America Intellectual Property Corporation		
Signature	<i>Winston Hsu</i>		
Printed name	Winston Hsu		
Date	07/21/2005	Reg. No.	41,526

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Typed or printed name		Date	

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PTO/SB/17 (12-04)

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 0.00

**Complete if Known**

Application Number	10/710,175
Filing Date	06/23/2004
First Named Inventor	Han-Chang Kang
Examiner Name	CALLAHAN, TIMOTHY P
Art Unit	2816
Attorney Docket No.	REAP0025USA

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: **50-3105** Deposit Account Name: **North America Intellectual Property Corp.**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
- 20 or HP = _____ x _____ = _____						
HP = highest number of total claims paid for, if greater than 20						
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)			
- 3 or HP = _____ x _____ = _____						
HP = highest number of independent claims paid for, if greater than 3						

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____				

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other: submission of Information Disclosure Statement

0.00

**SUBMITTED BY**

Signature	<i>Winston Hsu</i>	Registration No. (Attorney/Agent)	41,526	Telephone	302-729-1562
Name (Print/Type)	Winston Hsu	Date	07/21/2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Han-Chang Kang, Chao-Cheng Lee.

Appl. No.: 10/710,175

Filing Date: 06/23/2004

Examiner: CALLAHAN, TIMOTHY P

Art Unit: 2816

Docket No.: REAP0025USA

Title: APPARATUS AND METHOD FOR GENERATING A PHASE DELAY

To: Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37  
CFR §1.56

Dear Sir,

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 CFR §1.56. The applicant wishes to make of record the document(s) listed on the accompanying form PTO/SB/08.

Since this IDS is filed before the mailing date of the first Office action, consideration of the information disclosure statement is hereby requested according to 37 CFR §1.97(b).

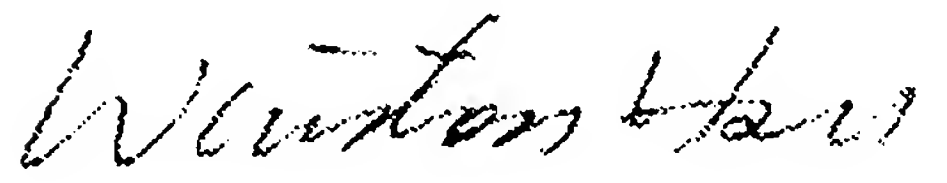
That each item of information contained in the information disclosure statement was first cited in an Office communication mailed on May 27, 2005 for the counterpart Taiwan patent application number 092130568, which are no more

than three months prior to the filing of the information disclosure statement.

According to the requirement set forth in 37 CFR §1.98(a)(2), the applicant is submitting a copy of the cited Taiwanese patent TW 556072 (published October 1, 2003). In accordance with MPEP 609 III A(3), an English-language equivalent application may be submitted to fulfill the requirement for a concise explanation of relevance. Accordingly, the English-language equivalent US patent 6,380,774 of the Taiwanese patent TW 556072 is hereby presented to fulfill the 37 CFR §1.98(a)(3) requirement.

It is respectfully requested that the examiner can consider the document(s) listed on the accompanying form PTO/SB/08 and that it be made of record in the application. The applicants sincerely hope that the examiner initials the cited reference(s) on the form and that a copy of the initialed form be sent to the applicants with the next communication from the examiner.

Respectfully submitted,



Date: July 21, 2005

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

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Facsimile: 806-498-6673

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

**Complete if Known**

U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

**Examiner  
Signature**

Date  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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